Use of LHCOPN for Belle-II traffic

WLCG Management Board meeting
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Use of LHCOPN for Belle-II traffic

At the last LHCOPN/ONE meeting (Tsukuba, October 2017), BNL asked to discuss the possibility to use the LHCOPN to exchange Belle-II traffic with other LHC Tier1s

- BNL has been designated to replace PNNL as Belle-II US Tier1. It will need to exchange Belle-II data with Belle-II sites that are also LHC Tier1s

- While Belle-II traffic is allowed on LHCONE, it is not mentioned in the LHCOPN MoU. BNL wishes to not have to increase the complexity of its network to avoid to exchange BelleII traffic over the LHCOPN with such sites

- Ultimately BNL would like to allow all its ScienceDMZ* traffic to any LHC connection

*ScienzeDMZ: network portion that connects data transfer servers and has direct access to high speed backbones like LHCONE and LHCOPN

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Decision

During the LHCOPN meeting and follows up discussions on the LHCOPN/ONE mailing lists, it has been agreed:

- to allow Belle-II traffic over LHCOPN, if both ends of the transfers agree to do so
- this exception concerns only sites that are already LHC Tier1s. The LHCOPN is not going to be opened to sites that are part of Belle-II but not of LHC, like KEK. Those Belle-II only sites must keep using LHCONE
- inform the WLCG Management Board. In case of objections or concern, reconsider the matter
- document the LHCOPN AUP here
  https://twiki.cern.ch/twiki/bin/view/LHCOPN/LHCopnAUP

Slides used for the discussion at the meeting:
https://indico.cern.ch/event/646629/contributions/2729158/attachments/1540572/2415654/LHCONE_LHCOPN_Presentation_2a.pdf

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Further matters

During the LHCOPN meeting it was also discussed the fact that several LHC sites participate to multiple experiments and collaborations. Their computing resources are often shared among the experiments and are connected to the same ScienceDMZ used for LHCOPN and LHCONE. As for the case of Belle-II, keeping not-LHC traffic out of LHCOPN/ONE may be technically challenging, if both ends of data transfers are connected to those networks

Few sites have expressed the wish to allow any of their ScienceDMZ traffic over LHCOPN/ONE, regardless of the origin of the data

Opinions on this matter were different. In the end it felt premature to make any decision before the Belle-II subject was settled. It will be discussed at the next meeting in March

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Opinions and comments

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